

ISR Discussion

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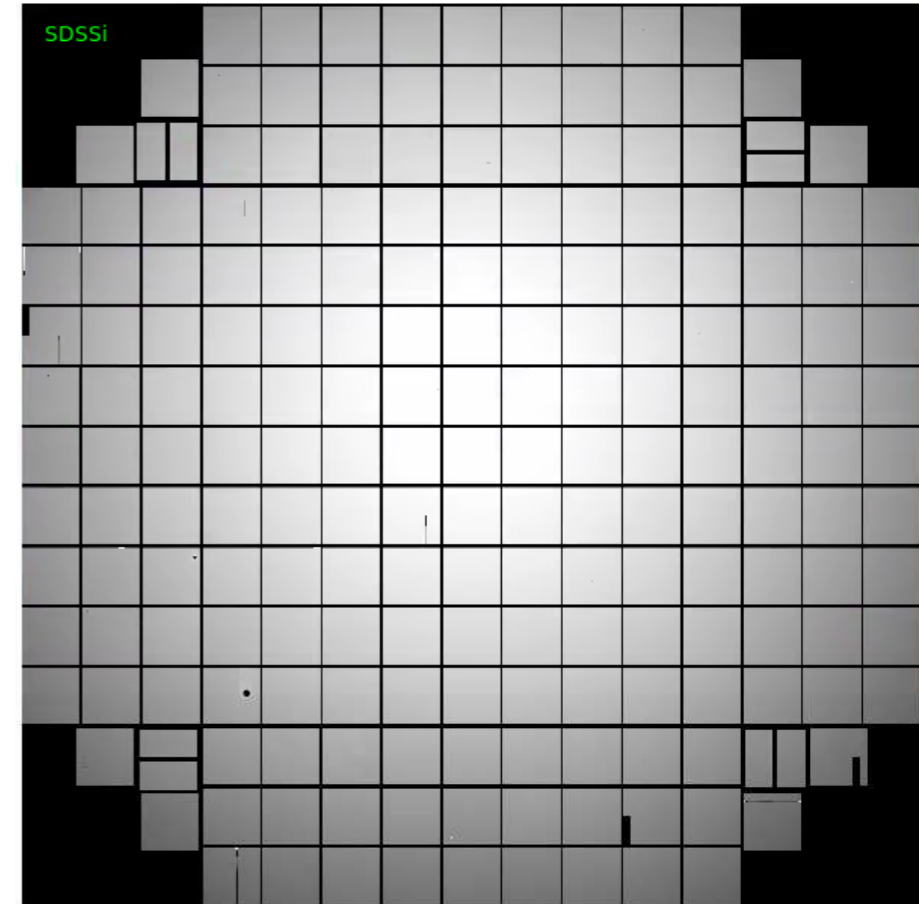
Aug 10, 2022

Project & Community Workshop



Proposal for DM ISR testing on Full Focal Plane BOT data

- Generate DM Calibrations
 - SuperBiases (from Run 13162)
 - Darks (from Run 13162)
 - Gains (PTC from Run 13144)
 - Non-Linearity (from Run 13144)
 - Bad Pixel/Column interpolation or masking
 - also could include Cross-Talk, CTI
- Apply DM Calibrations to BOT Flats
 - Run 13144 has Flat pairs with wide range of Flux levels
 - Run 13141 has many Flats with Flux $\sim 10\text{ke}$
 - Run 13162 has individual Flats in u,g,r,i,z,y
- Are corrected Flats smooth across individual CCDs?
 - is any Amp to Amp offset present?
 - if so, is it constant as a function of Flux or band?



A. Rasmussen

Possible additions to ISR

- Overscan subtraction
 - apply different algorithms by amplifier or CCD
 - algorithm more sophisticated than Row or Row*Col
- Bias subtraction
 - account for residual Bias variation after superBias subtraction
- Persistence
 - e2v CCDs; time dependence
- Gain temperature dependence
 - simple linear relation
- Differential Non-Linearity (ADC bias)
 - attempt a correction?
- Cross-Talk
 - Non-linearity?
 - time-lagged?
- Brighter-Fatter
 - kernels for each Band

$$g(T) = g(T_0) + \frac{dg}{dT}(T - T_0)$$